

## PATENT STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER FI	LING DATE	FIRST NAMED	William D.C. SC	<u> </u>	
		TING! NAMED	INVENTOR	ATTORNEY DOCKET NO.	
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08/005,381	01/15/93	NILSSEN	0		
				EXAMINER	
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BARRINGTON,	IL 60010	·^.		/1	
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			DATE MAILE	D:	
This is a communication from COMMISSIONER OF PATEN	the examiner in cha	rge of your application.		10/06/93	
OF FAIEN	12 AND THADEMA	AHKS			
			1 1		
This application has been	examined 🔯	Responsive to communicati	ion filed on 7/8/0/93	r <b>∀</b> 1	
			/ / / / / / / / / / / / / / / / / / /	This action is made final.	
A shortened statutory period for Fallure to respond within the puriod	r response to this a	ction is set to expire	month(s), day	s from the date of this letter.	
			ecome abandoned. 35 U.S.C. 1	33	
Part I THE FOLLOWING AT	TACHMENT(S) AR	E PART OF THIS ACTION:		,	
1. Notice of Reference	e Cited by Evenies	. DTO 000	. — :		
3. Notice of Art Cited t	ov Apolicant, PTO-1.	449	2. Notice of Draftsman's	s Patent Drawing Review, PTO-948.	
5. Information on How	to Effect Drawing C	hanges, PTO-1474.	4. Notice of Informal Pa	tent Application, PTO-152.	
Part II SUMMARY OF ACTIO	*.		v. L.	<del></del>	
Tarin Summant of ACII	אכ	. 1	:		
1. Claims		<u> م</u>			
Of the above, cla				are pending in the application.	
Ci dio above, da	unts		<u>:</u>	are withdrawn from consideration.	
2. Claims	<u> </u>			have been cancelled.	
3. Claims					
	-410			are allowed.	
				are rejected.	
5. L Claims				are objected to.	
6. Claims			are subject to restri	ction or election requirement.	
7. This application has bee	on filed with information	I drawings under 37 C.F.R. 1	.85 which are acceptable for exa		
8. Formal drawings are rec			The second secon	artimation purposes.	
9. The corrected or substitu		ا نسبار میں میں میں میں میں میں ہے۔ ان نیس ا	lactore		
are Dacceptable; n	ite drawings have b ot acceptable (see	explanation or Notice of De-	Under 37 tsman's Patent Drawing Review,	C.F.R. 1.84 these drawings	
10 D ~ ^\			isman's Patent Drawing Review,	PTO-948).	
<ol> <li>The proposed additional examiner; ☐ disapprov</li> </ol>	or substitute sheet	(s) of drawings, filed on	has (have) beer	Dapproved by the	
. ''	•	(ovo oxpicalagori).	•	•	
. The proposed drawing correction, filed has been approved; approved (see explanation).					
<ol> <li>Acknowledgement is made</li> </ol>	Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received not been received been filed in parent application, serial no; filed on				
<ol> <li>Since this application app</li> </ol>	pears to be in cond		r formal matters	to the merits is closed in	
4. Other	Parison Ex paris	чицию, 1999 С.D. 11; 453 (	J.G. 213,		
				•	

**EXAMINER'S ACTION** 

PTOL-326 (Rev. 2/93)

00538/

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1. Claims 1-46 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are indefinite since:

a. Claim 1, line 6, "high-frequency" is unclear since reference to the frequency which is not "high" is not said until line 10, i.e. antecedence should be provided that clarifies "high"; lines 8-9, "certain magnitude and certain frequency" is unclear since "certain" is ambiguous since it may refer to the accuracy of the inverter or to the design values of the magnitude and frequency, and it is not clear why the "high-frequency" is now a "certain frequency", and using "certain" before both "magnitude" and "frequency" incorrectly implies that the magnitude and frequency are equal, and so "certain" may be replaced by --inverter circuit-- or otherwise clarified; line 9, "substantially" is unclear since substantial amounts of frequency difference are not necessarily more than a fraction of a Hertz or orders of magnitude, i.e.it is not particularly pointed out what frequencies are intended; lines 10-11, "an ordinary electric utility power line" is a means that is referred to merely with regards to the frequency of the voltage on it, yet it is referred to in the recitation of the function performed by the inverter which is comprised in the claimed "arrangement", and so it is not clear if the "power line" is included in the "arrangement" or not, and it is not clear where the "power line" is with respect to the "arrangement", i.e. reference to the "power line" is unclear since it is a range of frequencies that is referenced, and it is not even certain which power line, of

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the many different ones conducting respective currents which are not necessarily 50-60 Hertz in all of the equipment owned by utilities, is the ordinary one referred to, and so reference should be to the number of Hertz instead of to a frequency of a voltage on a power line; line 15, "said certain frequency" is unclear as above; lines 15-24, "the inverter circuit being further characterized in that: ... comparison to said certain magnitude" is unclear due to reliance on that which precedes it which is unclear, and since "any AC voltage of frequency equal to that of the high-frequency AC voltage existing between the reference terminal and the first DC terminal is of negligible magnitude compared with said certain magnitude;" is improperly punctuated and should be (ignoring that which is indefinite from above) -- any AC voltage, of frequency equal to that of the high-frequency AC voltage, existing between the reference terminal and the first DC terminal, is of negligible magnitude compared with said certain magnitude; --, and since it is not clear what voltage "any AC voltage" is since that which exists, between the reference terminal and the first DC terminal, or between the two DC terminals, could be anything in existence while it is not particularly pointed out what in existence is inventive which is effected by or makes use of "any voltage", and even if it is particularly pointed out that it is e.g. the inverter circuit which is what "any voltage" concerns, it remains unclear what produced the respective "any voltage"s, i.e. exactly what in all known inverters produces such voltages, or what is the definition of the characteristic of all known inverters, or of anything else, that is referred to as "any voltage", and "negligible" is unclear since it is a relative amount

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and it is not said what is not negligible to particularly point out that which is negligible by definition, and in line 21, "voltage" should be --voltage,--, and in line 22, "voltage" should be --voltage,--, and in line 23, "terminals" should be --terminals,-- (the last three punctuation corrections not made with regard of previous indefiniteness above).

- b. Claims 2-46 incorporate indefinite language substantially as that of claim 1 above.
- 2. The functional recitations of the claims have not been given patentable weight because they are narrative in form. In order to be given patentable weight, a functional recitation must be expressed as a "means" for performing the specified function, as set forth in 35 USC § 112, 6th paragraph, and must be supported by recitation in the claim of sufficient structure to warrant the presence of the functional language. *In re Fuller*, 1929 C.D. 172; 388 O.G. 279.

That is, practically any reference anticipates that which is claimed since there is not much remaining in the claims when that which is not given patentable weight is not applied. And so, priority should be given to making the claims definite so that sensible application of references can be performed.

3. Applicant's amendment necessitated the new grounds of rejection. Accordingly, THIS ACTION IS MADE FINAL. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

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A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Mis whose telephone number is (703) 308-4907.

Sanger Co.

Salata .

DAVID MIS **EXAMINER** 

GROUP ART UNIT 252

dm October 5, 1993